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(54) Title: PROCESS FOR CONTROLLING THE DENSITY, CONFORMATION AND COMPOSITION OF THE HYDROPHILIC LAYER OF A POLYURETHANE COMPOSITE

(57) Abstract: A process of making a foam composite of desired pore size and conformation, including the steps of: preparing an emulsion of a hydrophilic polyurethane prepolymer which upon curing forms a substantially open cell hydrophilic polyurethane polymer foam; contacting an open cell hydrophobic polyurethane foam having a plurality of surfaces defining a plurality of pores with the hydrophilic polyurethane prepolymer emulsion; and curing the hydrophilic polyurethane prepolymer emulsion while in contact with the hydrophobic polyurethane by contacting the emulsion with a gas at elevated temperature for a period of time sufficient to form a coating of the substantially open cell hydrophilic polyurethane foam on the hydrophobic polyurethane foam.



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